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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/749,291	12/30/2003	Erdal Karamuk	36348	9807	
116 . 75	90 09/15/2006		EXAMINER		
PEARNE & GORDON LLP 1801 EAST 9TH STREET SUITE 1200 CLEVELAND, OH 44114-3108			STOUFFER, KELLY M		
			ART UNIT	PAPER NUMBER	
			1762		
			DATE MAIL ED: 09/15/2004	DATE MAILED: 09/15/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
0 55	10/749,291	KARAMUK, ERDAL			
Office Action Summary	Examiner	Art Unit			
·	Kelly Stouffer	1762			
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 30	Responsive to communication(s) filed on <u>30 December 2003</u> .				
<u> </u>					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the n					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) 9-12 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-3, 5 and 6 is/are rejected. 7) Claim(s) 4,7 and 8 is/are objected to. 8) Claim(s) 1-12 are subject to restriction and/or election requirement. 					
Application Papers					
9)⊠ The specification is objected to by the Examin 10)⊠ The drawing(s) filed on 14 April 2004 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre 11)□ The oath or declaration is objected to by the E	a) accepted or b) objected to to depend on a drawing (s) be held in abeyance. See ction is required if the drawing (s) is objection is required if the drawing (s) is objection.	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119		•			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11 February 2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

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DETAILED ACTION

In view of the papers filed 1 August 2005, it has been found that this nonprovisional application, as filed, through error and without deceptive intent, improperly set forth the inventorship, and accordingly, this application has been corrected in compliance with 37 CFR 1.48(a). The inventorship of this application has been changed by adding the names of Stefan Launer and Michael Mathey.

The application will be forwarded to the Office of Initial Patent Examination (OIPE) for issuance of a corrected filing receipt, and correction of Office records to reflect the inventorship as corrected.

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-8, drawn to a process, classified in class 418, subclass 569.
 - II. Claims 9-12, drawn to a product made, classified in class 220, subclass 4.02.

The inventions are distinct, each from the other because of the following reasons:

Inventions in groups I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the process could be used to make other materially different products that are not electrical device housings.

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Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

During a telephone conversation with Michael Garvey on 7 September 2006 a provisional election was made without traverse to prosecute the invention of the process, claims 1-8. Affirmation of this election must be made by applicant in replying to this Office action. Claims 9-12 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Specification

2. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

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As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

The disclosure is objected to because the required section headings are not present. Appropriate correction is required.

3. The disclosure is objected to because of the following informalities:

Reference numbers 1 and 2 in Figures 1 A and B, respectively, are not defined in the specification

80°C on page 5 line 24 should be --80°--

Reference numeral 21 is used to designate both the function switch on page 6

line 23 and a function- or pushbutton on page 7 line 14.

Appropriate correction is required.

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Claim Objections

4. Claims 4, 7 and 8 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependant claim. See MPEP § 608.01(n). Accordingly, the claims 4, 7, and 8 have not been further treated on the merits.

5. Claims 7 and 8 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only. See MPEP § 608.01(n). Accordingly, the claims 7 and 8 have not been further treated on the merits.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 2, the phrase "and the like" renders the claim(s) indefinite because the claim(s) include(s) elements not actually disclosed (those encompassed by "and the like"), thereby rendering the scope of the claim(s) unascertainable. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-3 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by US publication number 2001/0049051 to Jones et al. Regarding claims 1 and 2, Jones et al. discloses a process for the liquid impervious sealing of a container, or housing, which one of ordinary skill in the art would recognize as sealing crevices, chinks, capillaries, or openings in the walls of the housing. If the coating did no seal said crevices, chinks, capillaries, or openings in the walls of the housing it would be permeable to liquids, and Jones et al. discloses a coating impermeable to liquids.

Jones et al. also discloses the coating as permeable to gases and therefore gas exchange with the environment through the coatings is guaranteed. See paragraph 0081 et seq. Therefore Jones et al. meets all the recitations of claims 1 and 2 at least as broadly recited by claims 1 and 2.

Regarding claim 3, Jones et al. discloses the housing coated with a polyfluorotetraethylene (PTFE) powder, which can be broadly interpreted to include nanoparticles in paragraph 0083 et seq. Jones et al. meets all the recitations of claim 3 at least as broadly recited by claim 3.

Regarding claim 5, Jones et al. discloses coating the housing by soaking in a PTFE solution, in which the solution can be broadly interpreted to include a polycondensate in paragraph 0084 et seq. Jones et al. meets all the recitations of claim 5 at least as broadly recited by claim 5.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jones et al. in view of US Patent number 6649222 to D'Agostino et al. Jones et al. is described above and includes all of the requirements of claim 6 except deposition of the PTFE film

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by low temperature plasma deposition. The film of Jones et al. is preferably applied to ensure a liquid-tight coating with less risk of leaks (paragraph 0085 et seq.) D'Agostino et al. teaches coating surfaces with fluorocarbon low temperature plasma deposition (column 1 lines 12-16, 49-52 and column 2 lines 35-36). These films have properties similar to PTFE films and are deposited in this manner to deposit a continuous fluorocarbon thin film that is tightly bound to the substrate with super hydrophobic surface characteristics (column 2 lines 7-17). One of ordinary skill in the art would recognize that by depositing a tightly bound and continuous film, one is depositing a liquid-tight coating with less risk of leaks as desired by Jones et al.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Jones et al. to include the procedure for depositing PTFE with a low temperature plasma as taught by D'Agostino et al. in order to form a tightly bound and continuous film that has super hydrophobic characteristics and will have less risk of leaks.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kelly Stouffer whose telephone number is (571) 272-2668. The examiner can normally be reached on Monday - Thursday 7:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kelly Stouffer Examiner Art Unit 1762

kms

TIMOTHY MEEKS SUPERVISORY PATENT EXAMINER